

PHENIX WEEKLY PLANNING

6/19/2008

Don Lynch

Design & Safety Review Action Items:

Mu Trigger
 RPC Prototype Installation
 New Beampipe
 CM Crane
 Sta. 1 and MMN Scaffolding

Platform review (Pearson)
 In progress
 Waiting for Funding
 Waiting for Vendor response
 Inspect after Complete (Pearson)

RPC Factory:

Prototype C tests
 Prototype D Tests
 Dark Current test stand
 Rollaround foil dispenser
 AC installation

in progress
 gaps & module frames received
 in design
 done
 done

Mu Trigger FEE upgrade:

Station 2/3 scaffolding
 Station 1 scaffolding
 Rack components (N&S)
 Rack assembly
 LV cable prep
 N&S platforms Fabricate & install

complete, needs inspection
 in progress finish by 6/27
 on order
 in progress finish by 7/11
 in progress finish by 7/15
 fabrication in progress, install by 7/15 (Pearson)

Mu Trigger FEE Upgrade (cont'd):

Prep work for platforms (water/elec)	in progress finish by 7/15
FEE installation N&S sta's. 1,2 & 3	Aug-Sep
FEE water and dry air installation	Aug-Sep
Optical cable prep	July
LV cable installation	July-Aug
optical cable installation	July- Aug
Rack (N&S) installation	July 15+
Install FEE's in MMS for RPC test	Sep.
Install FEE South platform	Sep.
Install S rack cooling & electric	Oct.
Rack room electronics, etc.	Sep.- Oct.
Final rack utilities	Sep.-Oct
Testing	Sep.-Nov.
RPC engineering & safety review	July 10&11
RPC proptotype installation:	
Prep work	complete by July 31
move (7) MuID pipes	
move gap 5 south cable tray	
Rack prep	Complete by Aug 29
RPC prototype gas system	July - Aug

RPC proptotype installation (cont'd):

Move shielding for installation	July - Sep
RPC prototype cable routing & support	July - Aug
Modify crystal palace & vapor barrier	July - Aug
RPC prototype install	Sep. - Oct.
(RPC2 - PHENIX) (RPC3 - C. Pearson)	Sep. - Oct.
Install rack in tunnel south	Sep.
Replace tunnel shielding	Nov. (C. Pearson)
Connect electronics/gas	Sep. - Nov.
MuTr Decapacitations (Sta. 1 N and MMN)	July - Sep
Fan Tray maintenance	in progress (on going fill-in)
HBD Install	Sep.-Oct.
PC1 west work (needs planning)	Sep. - Nov.
CM Crane Install	Oct.
DC East?/West Repairs	Oct. - Nov.

Shutdown '08 Schedule, cont'd

Remove all inst'n equipment(e.g. scaffolds)
 Gap 5 north piping and cable tray re-loc.
 Gap 2 north cable tray & crate re-mounts
 Prep for shutdown 2009
 Prep for run 9
 Close shield wall start shifts
 Start physics

Oct. - Nov
 Oct. - Dec.
 Oct. - Dec
 Nov. - Dec
 Dec
 Dec.
 Jan 1

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MMN Scaffolding is complete



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MuTrigger FEE LV Cable Prep in progress

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MuTrigger FEE Rack prep in progress

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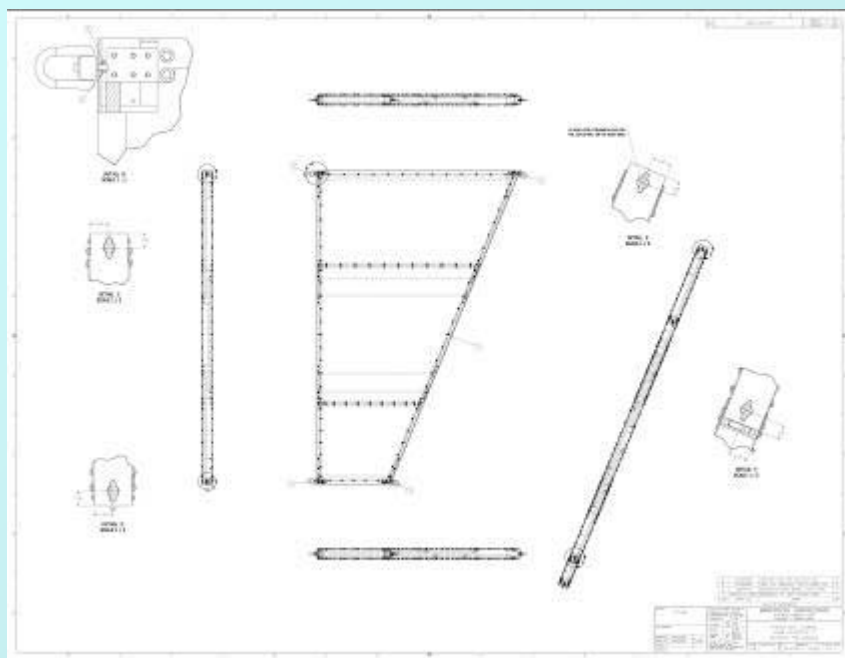
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RPC Prototype

Rec'd dim's and lifting points from Larry B.

Need to decide on prototype orientation and alignment for Sta 1 & 2 based on absorber location.

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RPC Prototype "D" Gaps ready for testing

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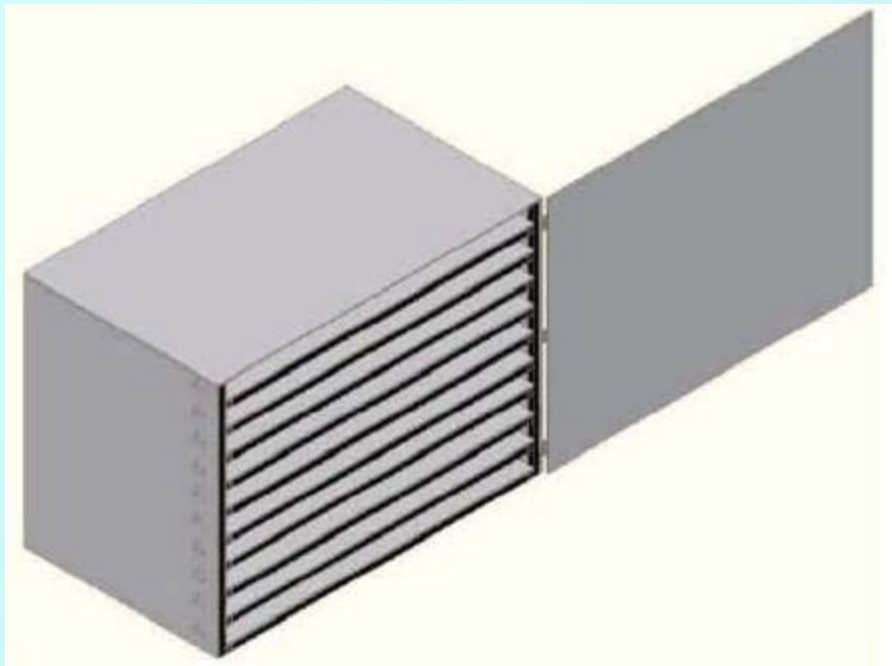
AC work: Done

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RPC Factory Support, cont.

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Dark Current Test Stand

Specs:

Chamber gas flow (?)

HV supply 10,000 V

Hold time 72 hrs

10 shelves each to hold a
76" x 50" (approx. max.)

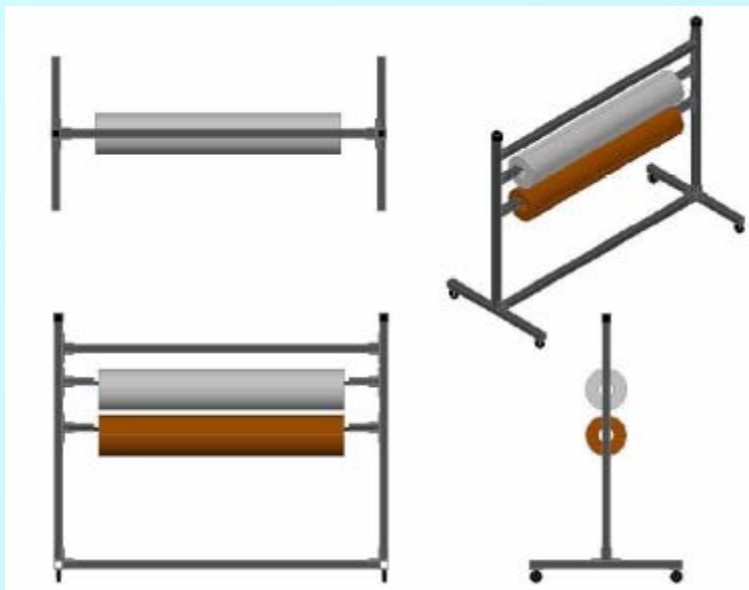
Gap module.

Trip points $< 20 \mu\text{A}$

Current $< 1 \mu\text{A}$

Shelf surface: flat and
non-conductive

RPC Factory Support, cont.



Foil dispenser: done



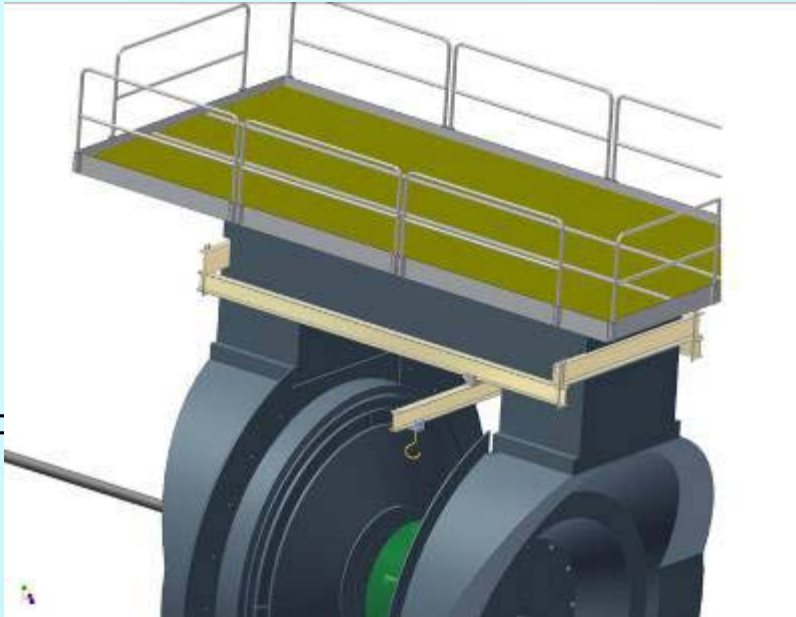
Shutdown '08 Electrician Work

- 1) Run Power to new MuTrgr FEE racks on MMN and MMS
- 2) Install power and signal cable tray (ceiling suspended) for new DCM rack row - north of existing DCM racks.
- 3) Install power feeds to RPC north & south tunnel racks from IR power panels.

NOTE: MuTr north power panel has no available breakers to feed north tunnel racks (south panel has spare breakers for use). More engineering analysis is required to determine if the north power panel should be increased in size or for installation of a sub panel branch can be accomplished.

- 4) Assist in signal cable installation for MuTr/RPC upgrades as necessary.
- 5) Upgrade power capacity of Central Magnet power distribution for future bridge rack loads.
 - a) Remove existing 15KVA transformer and install 45KVA unit.
 - b) Install new (larger size) power cable from rack room to Central Magnet distribution breaker panels.
- 6) Install 120 volt AC power drops into new control room annunciator alarm rack (rack room).

CM Crane, Station 1 scaffolding

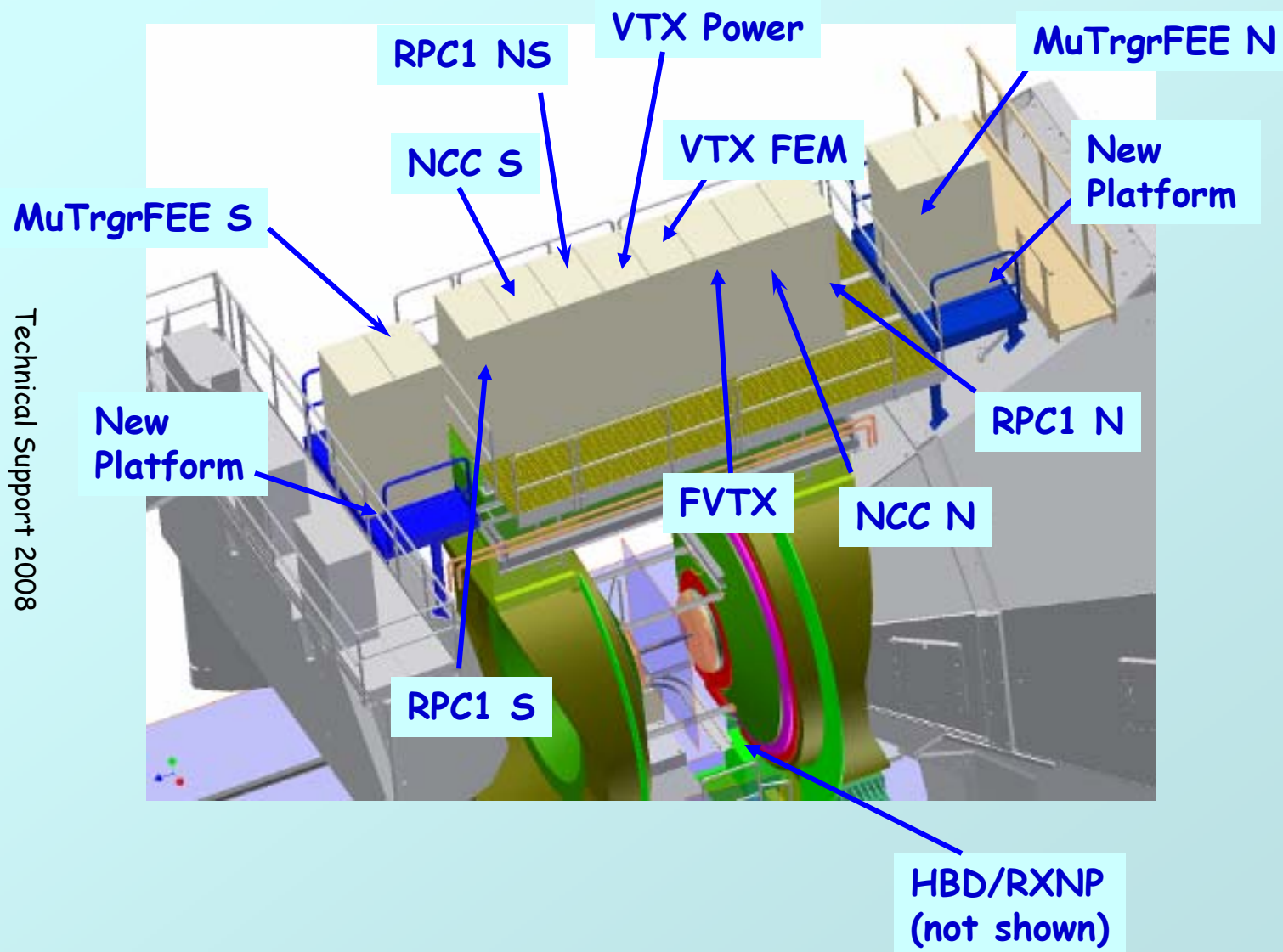


**CM Crane procurement postponed
Until FY09**



**Sta 1 scaffolding
construction started.**

Detector upgrade Rack allotments



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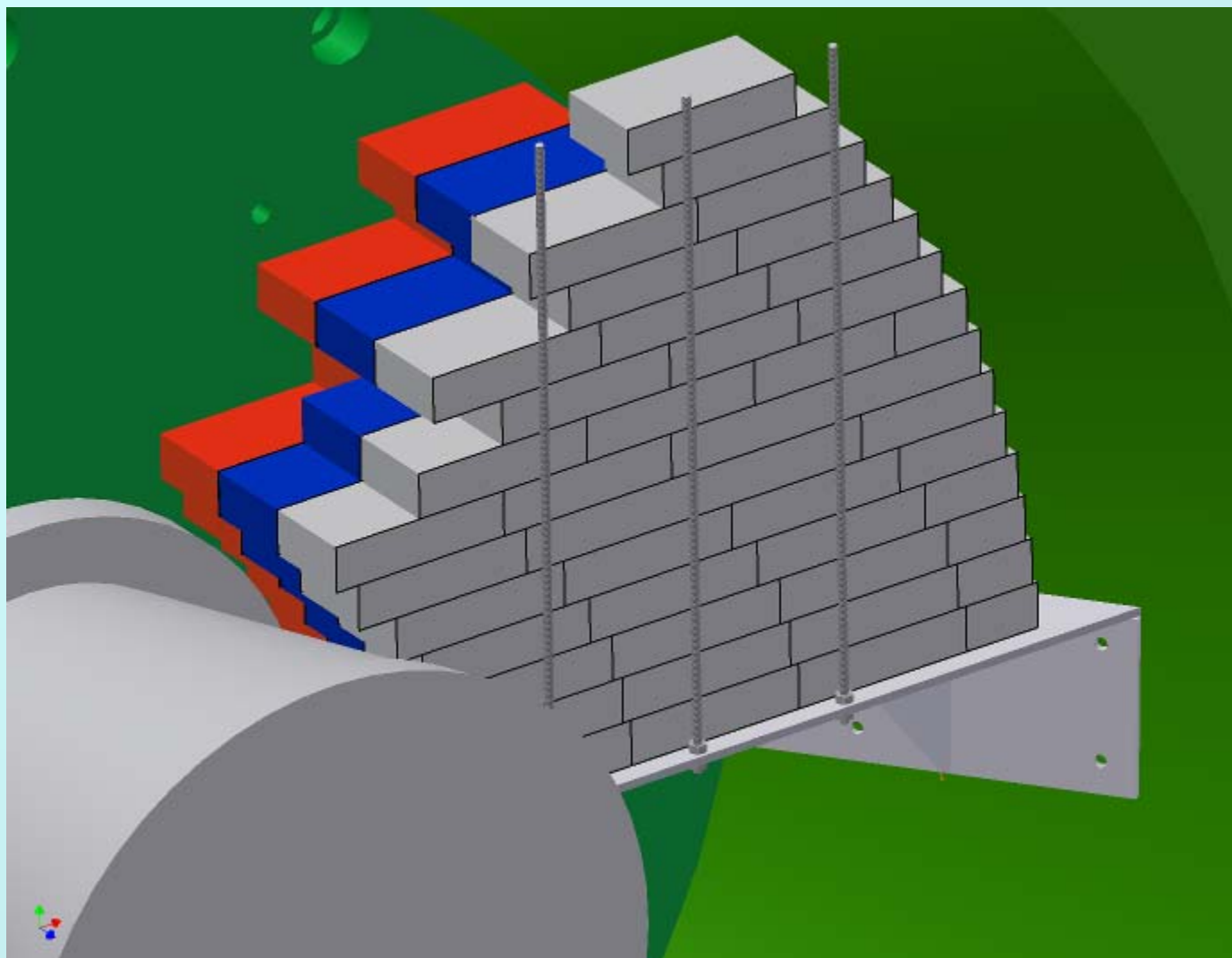
MuTrigger FEE Rack Utilities

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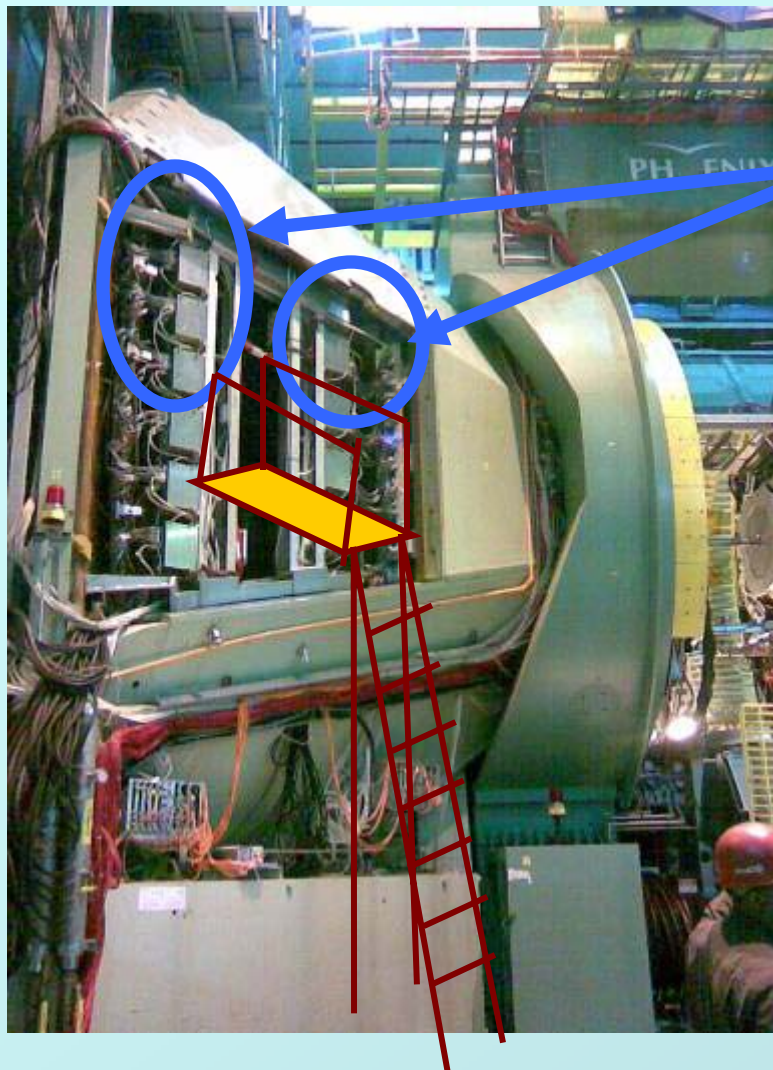
Need to install Tee's on supply and return lines: both s/b $\frac{3}{4}$ to supply Mu Trigger North rack and future rack

RPC Absorber Concept



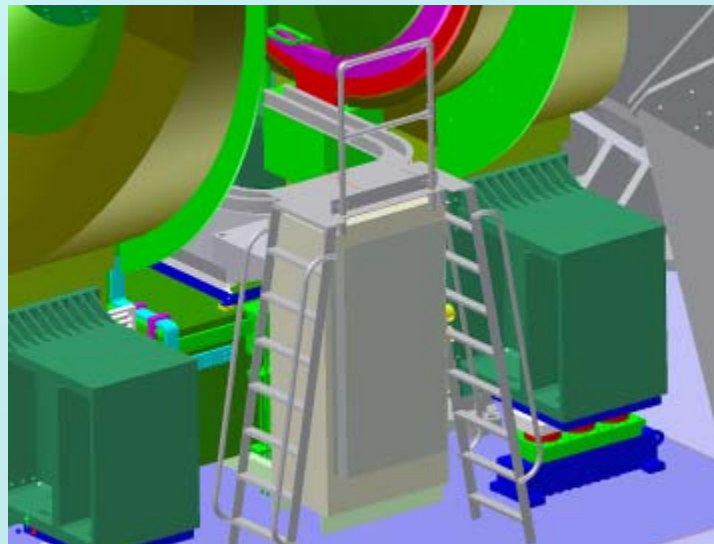
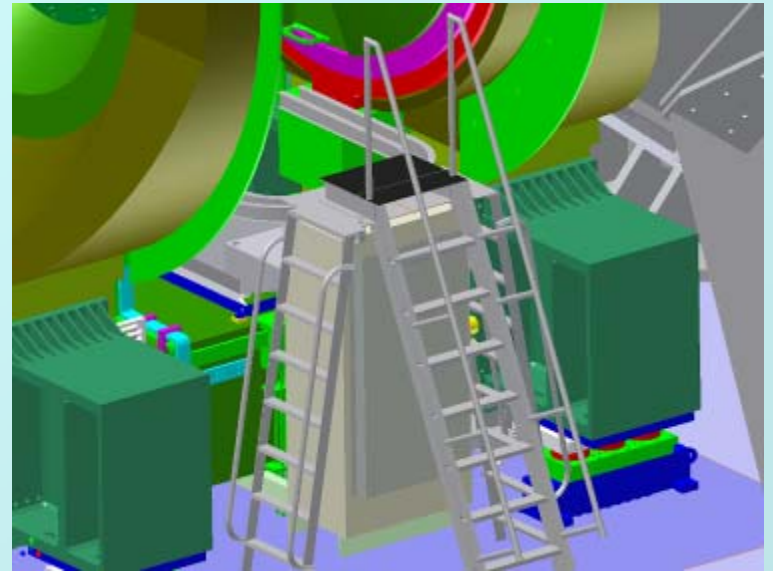
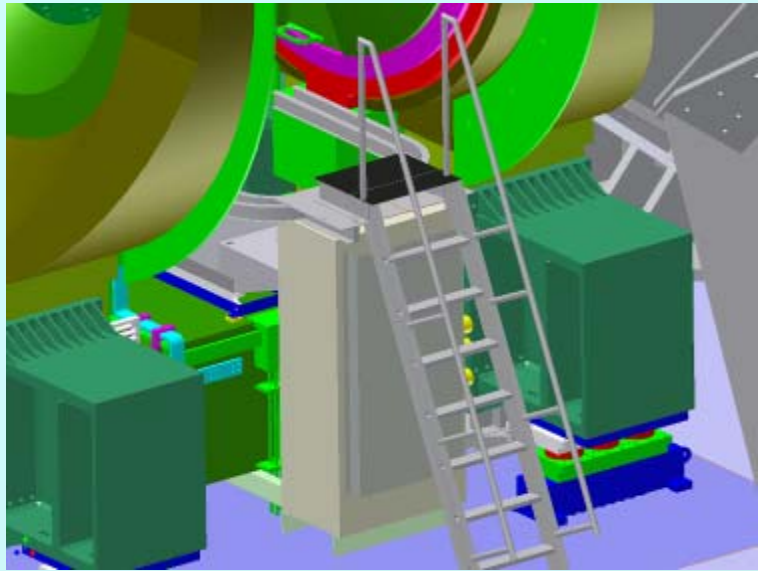
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MuTrigger FEE upgrades in MMS in support of RPC prototypes



To match absorber and prototype RPC's, we need to install new FEE upgrades in these 5 MuTR FEE's

We will develop a plan to access these for installation and testing from a custom work platform (to be designed).



Work Permit Requirements

- CM Crane Installation
- RPC Prototype Installation
- HBD re-installation
- PC1 Repairs

These WP's not needed until Sept.

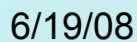
(More will be needed – to be added to the list as appropriate)

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1-5/8" to 3" transitions

Drawings Done, C-A getting Quotes for NEG coating



Summertime PPE:

Long pants short sleeve shirts proper shoes.

No shorts, anywhere. (Note: lab committee is considering office exceptions.)

Additional PPE as appropriate to the task.

Site Emergency Plan:

1008 complex (and all of RHIC ring) is in zone 2

Our LEC is CAS Watch x2022, P. Giannotti is backup LEC (x3815)

In case of emergency, dial 911 or 2222 from lab phones;
from cell phones dial 344-2222

Where To Find PHENIX Engineering Info

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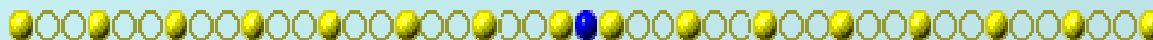
Summer officially begins
tomorrow at 7:59 PM (EDT)
Summer solstice



(Solstice from sol + stice
meaning "sun" + "to stand
still")



Links for the weekly planning meeting slides, long term planning, pictures, videos
and other technical info can be found on the web site:



http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm